

# MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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## DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

## **NOTICE OF ACCEPTANCE (NOA)**

Firestone Building Products Company, LLC 250 West 96<sup>th</sup> Street Indianapolis, IN 46260

#### **SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable Building Code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

### **DESCRIPTION:** Firestone EPDM Single Ply Roof Systems over Steel Decks.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable Building Code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 13-0715.02 and consists of pages 1 through 38. The submitted documentation was reviewed by Gaspar J Rodriguez.

MIAMI-DADE COUNTY
APPROVED

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## **ROOFING SYSTEM APPROVAL**

Category:RoofingSub-Category:Single PlyMaterial:EPDMDeck Type:SteelMaximum Design Pressure:-180 psf.

# TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

<u>Product</u>	<u>Dimensions</u>	Test Specifications	Product <u>Description</u>
Standard RubberGard®	45 & 60 mil	ASTM D4637 Type I	Non-Reinforced EPDM membrane.
RubberGard MAX®	45, 60 & 75 mil	ASTM D4637 Type II	Polyester scrim reinforced EPDM membrane.
RubberGard MAX FR®	45, 60 & 75 mil	ASTM D4637 Type II	Fire Retardant Polyester scrim reinforced EPDM membrane.
RubberGard MAX PT®	45 & 60 mil	ASTM D4637 Type II	Polyester scrim reinforced EPDM membrane with integrated 3" preapplied seam tape.
RubberGard Platinum®	90 mil	ASTM D4637 Type I	Non-Reinforced EPDM membrane.
RubberGard LS-FR®	45 & 60 mil	ASTM D4637 Type I	Fire Retardant Non-Reinforced EPDM membrane.
RubberGard LS-FR PT®	60 mil	ASTM D4637 Type I	Fire Retardant Non-Reinforced EPDM membrane with integrated 3" pre-applied seam tape.
RuberGard EcoWhite®	60 & 90 mil	ASTM D4637 Type I	Non-Reinforced, bi-laminate, white on black EPDM membrane.
RubberGard EcoWhite® PT	60 mil	ASTM D4637 Type I	Non-Reinforced, bi-laminate, white on black EPDM membrane with QuickSeam Tape.
EPDM FormFlash	various	ASTM D4811	Self-curing EPDM flashing
Reinforced Perimeter Fastening Strip	.045" x 6" x 100'	ASTM D4637	Non-dusted EPDM reinforced strip for non-penetrating base tie-in details
BA-2004 T	5 gallon pail	Proprietary	Neoprene based bonding adhesive
Single-Ply LVOC Bonding Adhesive	5 gal. pail	Proprietary	Solvent based bonding adhesive.
Single-Ply LVOC Bonding Adhesive 1168	5 gal. pail	Proprietary	Solvent based bonding adhesive.
Water Based Bonding Adhesive-P	5 gal. pail	Proprietary	Water based bonding adhesive.
Single-Ply QuickPrime Primer	3 gal. pail	Proprietary	Solvent based primer used to clean EPDM
EcoWhite® QuickSeam Splice Tape	3" x 100' 6" x 100'	Proprietary	Tape for field splicing



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		Test	Product
<b>Product</b>	<b>Dimensions</b>	<b>Specifications</b>	<b>Description</b>
SA-1065 Splice Adhesive	1 gallon and 5 gallon pails	Proprietary	Synthetic polymer based adhesive
UltraPly Bonding Adhesive	5 gal. pail	Proprietary	Solvent based adhesive
I.S.O. Twin Pack Insulation Adhesive	1500 ml	Proprietary	A dual component polyurethane adhesive.
I.S.O. Stick	5 gal & 1500 ml	Proprietary	A dual component polyurethane adhesive.
I.S.O. Fix II	30 lbs.	Proprietary	A single component polyurethane adhesive.
Acryli-Top	5 gallon pail	Proprietary	Acrylic coating
QuickPrime, QuickPrime Plus, QuickPrime Plus LVOC, Single-Ply LVOC Primer	5 gallon pail	Proprietary	Primer used to clean and prime EPDM
QuickSeam Flashing	.080" x various widths x 100'	Proprietary	Semi-cured EPDM flashing laminated to cure seam tape
QuickSeam Batten Cover	.095" x various widths x 100'	Proprietary	Cured EPDM and a seam adhesive laminate
QuickSeam Joint Cover	.070" x 5.75" diameter	Proprietary	FormFlash with two layers of butyl/EPDM adhesive tape laminate
QuickSeam Tape	3" x 100'	Proprietary	Tape for field splicing
QuickSeam R.M.A. Strip	10" x 100'	Proprietary	Strip of RubberGard MAX with QuickSeam Tape for anchoring membrane to substrate
Splice Wash SW-100	5 gallon pail	Proprietary	Cleaning and prep solution for EPDM
Pourable Sealer S-10	.78 gallon, Part A .10 gallon, Part B	Proprietary	Two part polyurethane sealant



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## **APPROVED INSULATIONS:**

### TABLE 2

<b>Product Name</b>	<b>Product Description</b>	Manufacturer
		(With Current NOA)
ISO 95+ GL, ISO 95+ GL Tapered	Isocyanurate Insulation	Firestone Building Products
		Company, LLC
RESISTA and tapered	Polyisocyanurate foam core laminated	Firestone Building Products
	to a coated fiberglass facer.	Company, LLC
ISOGARD HD	Polyisocyanurate with a coated	Firestone Building Products
	fiberglass facer.	Company, LLC
ISOGARD HD Composite	Polyisocyanurate with a coated	Firestone Building Products
	fiberglass facer composite insulation.	Company, LLC
High Density Wood Fiberboard	High Density Wood Fiber insulation	Generic
-	board.	
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia Pacific Gypsum
		LLC
SECUROCK Gypsum-Fiber Roof	Gypsum fiber roof board	USG Corp.
Board		*

## **APPROVED FASTENERS:**

## TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Firestone All-Purpose	Insulation and membrane	Various	Firestone Building
		fastener		Products Company, LLC
2.	Firestone Heavy-Duty	Insulation and membrane	Various	Firestone Building
		fastener		Products Company, LLC
3.	2" Metal Plate	Membrane seam	2" dia.	Firestone Building
		attachment plate.		Products Company, LLC
4.	Insulation Fastening	Galvalume insulation plate	3" diameter	Firestone Building
	Plate			Products Company, LLC
4.	Firestone V-Plate	Membrane seam	21/4" dia.	Firestone Building
		attachment plate.		Products Company, LLC
7.	Firestone Heavy Duty	Insulation and membrane	Various	Firestone Building
	Plus	fastener		Products Company, LLC
8.	Metal Batten Bar	Galvalume AZ55 batten	10' long,	Firestone Building
		strip	1" wide	Products Company, LLC
9.	Coiled Metal Batten Bar	Galvalume AZ55 batten	220' long,	Firestone Building
		strip	1" wide	Products Company, LLC
10.	Firestone Polymer	Polymer, corrosion –free,	250' long,	Firestone Building
	Batten Strips	batten strip.	3/4" or 1" wide	Products Company, LLC



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## **EVIDENCE SUBMITTED:**

<b>Test Agency</b>	Test Identifier	<b>Description</b>	<u>Date</u>
Underwriters Laboratories, Inc.	R9516	UL790	07/17/13
Factory Mutual Research Corp.	1V1A7.AM	FM 4470	06/25/92
1	1W3A4.AM	FM 4470	12/01/92
	1T7A3.AM	FM 4470	01/18/92
	1V6A9.AM	FM 4470	02/27/92
	2W6A2.AM	FM 4470	06/25/93
	2X9A8.AM	FM 4470	06/14/94
	3010822	FM 4470	07/31/02
	3014538	FM 4470	05/27/04
	3014826	FM 4470	10/07/02
	3016670	FM 4470	04/29/04
	3019991	FM 4470	09/20/05
	3029812	FM 4470	05/18/07
	3031293	FM 4470	11/29/07
	3030227	FM 4470	06/18/07
	3028164	FM 4470	11/02/07
	3015479	FM 4470	07/04/04
	3026519	FM 4470	12/14/06
	3027508	FM 4470	02/07/07
	3011282	FM 4470	08/08/02
	3030880	FM 4470	03/04/08
	3029384	FM 4470	02/28/08
	3033218	FM 4470	08/12/08
	3034561	FM 4470	12/08/08
	3038770	FM 4470	08/04/11
	3036256	FM 4470	04/27/09
	3038442	FM 4470	11/18/10
	3043994	FM 4470	02/15/12
	3047398	FM 4470	08/15/13
	3042909	FM 4470	08/03/11
	3038191	FM 4470	08/04/11
	3041939	FM 4470	08/14/12
	3035017	FM 4470	04/15/09
	3035560	FM 4470	01/11/10
PRI Construction Materials	FBP-044-02-01.5	TAS 117-B/TAS 114-H/J	02/04/14
Technologies LLC	FBP-162-02-01.1	Physical Properties	05/15/14
	FBP-136-02-01	Physical Properties	10/01/13
Trinity ERD	F9240.03.09-R2	ASTM D4637	07/30/09
	F9240.11.08-R1	ASTM D4637	07/10/09
	F9240.07.08-R2	ASTM D4637	07/10/09
	F13260.08.09-1	ASTM D4637	08/07/09
	F45950.05.14	ASTM D4637	05/13/14



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## **APPROVED ASSEMBLIES**

**Membrane Type:** EPDM, Reinforced, Non-reinforced

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. steel deck

**System Type B(1):** Base layer of insulation mechanically fastened, top layer adhered with approved

adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL		
Minimum 1.5" thick	1 with 4	1:2 ft <sup>2</sup>

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
Tapered ISO 95+ GL		
Minimum ½" starting thickness, ½:12 taper	N/A	N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in ½ to ¾ in. wide ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the cover board with Firestone Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal.. The roof cover side and end laps are sealed with

Firestone SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design

Pressure: –45 psf. (See General Limitation #9)



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Deck Type 2I: Steel, Insulated

**Deck Description:** 18-22 ga. steel deck, Grade 80, secured using 1/4" steel structural supports spaced

a maximum 6ft. o.c. with ITW Buildex Traxx 5 fasteners spaced maximum 6" o.c. at supports. Side laps, secured 24" o.c. with ITW Buildex TRAXX 1

fasteners.

**System Type B(2):** Base layer of insulation mechanically fastened, top layer adhered with approved

adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

**Base Insulation Layer Insulation Fasteners** Fastener Density/ft<sup>2</sup> (Table 3) **ISO 95+ GL** 

1:1.6 ft<sup>2</sup> Minimum 1.5" thick 1 with 4

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

**Top Insulation Layer Insulation Fasteners** Fastener Density/ft<sup>2</sup> (Table 3) ISO 95+ GL Minimum 1.5" Thick N/A N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in ½ to ¾ in. wide ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone Bonding Adhesive BA-2004 T, Single-Plv LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal.. The roof cover side and end laps are sealed with a Firestone SA-1065

Splice or QuickSeam Tape.

Maximum Design

Pressure: -75 psf. (See General Limitation #7)



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Deck Type 2I: Steel, Insulated

18-22 ga. steel deck, Grade 80, secured using 1/4" steel structural supports spaced **Deck Description:** 

> a maximum 6ft. o.c. with ITW Buildex Traxx 5 fasteners spaced maximum 6" o.c. at supports. Side laps, secured 24" o.c. with ITW Buildex TRAXX 1

fasteners.

**System Type B(3):** Base layer of insulation mechanically fastened, membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

**Base Insulation Laver Insulation Fasteners** Fastener Density/ft<sup>2</sup> (Table 3) ISO 95+ GL 1:1.33 ft<sup>2</sup> Minimum 1.5" thick 1 with 4

Note: All insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT, Membrane:

> RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal. The roof cover side and end laps are sealed with a Firestone SA-1065

Splice or QuickSeam Tape.

Maximum Design

Pressure: -82.5 psf. (See General Limitation #7)



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Deck Type 2I: Steel, Insulated

18-22 ga. steel deck, Grade 80, secured using 1/4" steel structural supports spaced **Deck Description:** 

> a maximum 6ft. o.c. with ITW Buildex Traxx 5 fasteners spaced maximum 6" o.c. at supports. Side laps, secured 24" o.c. with ITW Buildex TRAXX 1

fasteners.

**System Type B(4):** Base layer of insulation mechanically fastened, membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

**Base Insulation Laver Insulation Fasteners** Fastener Density/ft<sup>2</sup> (Table 3) ISO 95+ GL 1:1.6 ft<sup>2</sup> Minimum 2" thick 1 with 4

Note: All insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT, Membrane:

> RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal. The roof cover side and end laps are sealed with a Firestone SA-1065

Splice or QuickSeam Tape.

Maximum Design

Pressure: -82.5 psf. (See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. steel deck

**System Type B(5):** Base layer of insulation mechanically fastened, top layer adhered with approved

adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

**ISO 95+ GL** 

Minimum 1.5" thick 1 with 4 1:2 ft<sup>2</sup>

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Top Insulation Layer Insulation Fasteners (Table 3) Fastener

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ½" thick N/A N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in ½ to ¾ in. wide ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal. The roof cover side and end laps are sealed with a

Firestone SA-1065 Splice or QuickSeam Tape.

Maximum Design

Pressure: -45 psf. (See General Limitation #9)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Grade 33 steel deck is secured to minimum <sup>1</sup>/<sub>4</sub>" supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. (two fasteners installed at each bearing

attachment point) and Traxx 1 fasteners 24" o.c. at the side laps

System Type B(6): Base layer of insulation mechanically fastened, top layer adhered with approved

adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ $ft^2$  RESISTA In a 1 or 2 with 4 1:1  $ft^2$ 

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²
RESISTA
Minimum 1.5" thick N/A N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in  $\frac{1}{2}$  to  $\frac{3}{4}$  in. wide ribbons spaced 12 in. o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous  $\frac{3}{4}$ " – 1" wide ribbons spaced 12 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal or

Water Based Bonding Adhesive-P roller applied at a rate of 120 ft<sup>2</sup>/gal.

The minimum 3" side and end laps for RubberGard EcoWhite are sealed with

EcoWhite QuickSeam Tape . The minimum 3" side and end laps for all

RubberGard membranes are sealed with SA-1065 Splice Adhesive or QuickSeam

Tape.

Maximum Design

Pressure: -120 psf. (See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. steel deck

**System Type B(7):** Base layer of insulation mechanically fastened, top layer adhered with approved

adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²
ISO 95+ GL

Minimum 1.5" thick 1 or 2 with 4 1:2 ft<sup>2</sup>

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²
ISOGARD HD
Minimum 1/2" thick N/A N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in ½ to ¾ in. wide ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. RubberGard EcoWhite side and end laps sealed with EcoWhite Splice Adhesive or EcoWhite QuickSeam Tape. All other RubberGard side and and laps are sealed with SA 1065 Splice Adhesive or OviekSeam Tape.

end laps are sealed with SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design

Pressure: –45 psf. (See General Limitation #9)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. steel deck (See below for ksi) is secured to minimum <sup>1</sup>/<sub>4</sub>" supports

spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6" o.c. (two fasteners installed at each bearing attachment point) and Traxx 1 fasteners 24" o.c. at the side laps

**System Type B(9):** Base layer of insulation mechanically fastened, top layer adhered with approved

adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer
Insulation Fasteners
(Table 3)
Fastener
Density/ft²
ISO 95+ GL
Minimum 2" thick
1 or 2 with 4
1:1 ft²

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²
ISO 95+ GL

Minimum 1" thick N/A N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in  $\frac{1}{2}$  to  $\frac{3}{4}$  in. wide ribbons spaced 4" o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous  $\frac{3}{4}$ " – 1" wide ribbons spaced 4" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. The

minimum 3" side and end laps for RubberGard EcoWhite are primed with

QuickPrime Plus, QuickPrime Plus LVOC, or Single-Ply LVOC Primer and sealed with EcoWhite QuickSeam Tape. The minimum 3" side and end laps for all RubberGard membranes are primed with QuickPrime, QuickPrime Plus,

QuickPrime Plus LVOC, or Single-Ply LVOC Primer and sealed with SA-1065

Splice Adhesive or QuickSeam Tape.

Maximum Design —112.5 psf. on Grade 33 steel deck. (See General Limitation #7)

Pressure: -120 psf. on Grade 80 steel deck with Single-Ply LVOC Bonding Adhesive 1168

(See General Limitation #7)

-127.5 psf. on Grade 80 steel deck with BA-2004 T or Single-Ply LVOC

Bonding Adhesive (See General Limitation #7)

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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., Grade 33 steel deck is secured to minimum <sup>1</sup>/<sub>4</sub>" supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. (two fasteners installed at each bearing

attachment point) and Traxx 1 fasteners 24" o.c. at the side laps

System Type B(10): Base layer of insulation mechanically fastened, top layer adhered with approved

adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL		
Minimum 2" thick	1 or 2 with 4	1.1 ft <sup>2</sup>

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	1	
Minimum 1/2" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in  $\frac{1}{2}$  to  $\frac{3}{4}$  in. wide ribbons spaced 4" o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous  $\frac{3}{4}$ " - 1" wide ribbons spaced 4" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T Bonding Adhesive, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. The minimum 3" side and end laps for RubberGard EcoWhite are primed with QuickPrime Plus, QuickPrime Plus LVOC, or Single-Ply LVOC Primer and sealed with EcoWhite QuickSeam Tape . The minimum 3" side and end laps for all RubberGard membranes are primed with QuickPrime, QuickPrime Plus, QuickPrime Plus LVOC, or Single-Ply LVOC Primer and sealed with SA-

1065 Splice Adhesive or QuickSeam Tape.

Maximum Design

-112.5 psf. with Single-Ply LVOC Bonding Adhesive 1168

Pressure: (See General Limitation #7)

-105 psf. with BA-2004 T or Single-Ply LVOC Bonding Adhesive

(See General Limitation #7)



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Deck Type 2I: Steel. Insulated

**Deck Description:** 18-22 ga. steel deck (see below for ksi) is secured to minimum 1/4" supports

> spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6" o.c. (two fasteners installed at each bearing attachment point) and Traxx 1 fasteners 24" o.c. at the side laps

Base layer of insulation mechanically fastened, top layer adhered with approved System Type B(11):

adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

**Base Insulation Laver Insulation Fasteners Fastener** Density/ft<sup>2</sup> (Table 3) ISO 95+ GL 1:1 ft<sup>2</sup> Minimum 2" thick 1 or 2 with 4

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

**Top Insulation Layer Insulation Fasteners Fastener** Density/ft<sup>2</sup> (Table 3)

**ISOGARD HD** 

Minimum 1/2" thick N/A N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in ½ to ¾ in. wide ribbons spaced 4" o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous 3/4" - 1" wide ribbons spaced 4" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

> RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T Bonding Adhesive, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft<sup>2</sup>/gal. The minimum 3" side and end laps for RubberGard EcoWhite are primed with QuickPrime Plus, QuickPrime Plus LVOC, or Single-Ply LVOC Primer and sealed with EcoWhite QuickSeam Tape. The minimum 3" side and end laps for all RubberGard membranes are primed with QuickPrime, QuickPrime Plus, QuickPrime Plus LVOC, or Single-Ply LVOC Primer and sealed with SA-

1065 Splice Adhesive or QuickSeam Tape.

Maximum Design

Pressure:

-60 psf. on Grade 33 steel deck with BA-2004 T or Single-Ply LVOC Bonding Adhesive (See General Limitation #7)

-112.5 psf. on Grade 33 steel deck with Single-Ply LVOC Bonding Adhesive 1168 (See General Limitation #7)

-135 psf. on Grade 80 steel deck with Single-Ply LVOC Bonding Adhesive 1168

(See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. steel

**System Type C(1):** All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) The Density/ft²

ISO 95+ GL, RESISTA

Minimum 1.4" thick N/A N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Approved High Density Wood Fiberboard, Minimum 1" thick 1 or 2 with 4 1:2 ft<sup>2</sup>

Fire Barrier: None.

Membrane: Fully adhere any Firestone RubberGard® EPDM membrane to the insulation with

Firestone Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or

Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal.

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./ 100 sq. ft. with

an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are

required.

Maximum Design

Pressure: -45 psf. (See General Limitation #9)



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Deck Type 2I: Steel, Insulated

**Deck Description:** 18-22 ga. steel

System Type C(2): All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL		
Minimum 1.4" thick	1 or 2 with 4	1:2 ft <sup>2</sup>
Minimum 2" thick	1 or 2 with 4	1:4 ft <sup>2</sup>

1:2 ft<sup>2</sup> Approved High Density Wood Fiberboard, Minimum 1" thick 1 or 2 with 4

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Fire Barrier: None.

Membrane: Fully adhere any Firestone RubberGard® EPDM membrane to the insulation with

Firestone Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or

Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal.

(Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./ 100 sq. ft. with Surfacing:

an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are

required.

Maximum Design

Pressure: -45 psf. (See General Limitation #9)



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Deck Type 2I: Steel, Insulated

**Deck Description:** 18-22 ga. steel

System Type C(3): Insulation attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

**Insulation Fasteners Insulation Layer** Fastener Density/ft<sup>2</sup> (Table 3) ISO 95+ GL 1:2 ft<sup>2</sup> Minimum 1.5" thick 1 or 2 with 4

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Fire Barrier None.

Membrane: Fully adhere any Firestone RubberGard® EPDM membrane to the insulation with

Firestone Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or

Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal.

(Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./ 100 sq. ft. with Surfacing:

an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are

required.

Maximum Design

Pressure: -75 psf. (See General Limitation #9)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. steel deck, Grade 80, is secured to minimum <sup>1</sup>/<sub>4</sub>" thick supports spaced

6 ft. o.c. with Traxx 5 fasteners and ¾" diameter washers spaced 6" o.c. (two fasteners and washers installed at each bearing attachment point) and Traxx 1

fasteners 14" o.c. at the side laps

**System Type C(4):** All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²
ISO 95+ GL, RESISTA
Minimum 1.5" thick N/A N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer Insulation Fasteners (Table 3) Density/ft<sup>2</sup>

DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ½" thick 1 with 4 1:1.33 ft<sup>2</sup>

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR or RubberGard Platinum EPDM membrane fully adhered to the cover board with Firestone Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal. The roof cover side and end laps are first primed on both sides with Firestone QuickSeam Primer and sealed with Firestone 3" wide QuickSeam Tape, Firestone SA-1065 Splice Adhesive or Pliobond 9053 splice adhesive applied at a rate of 120 lineal ft./gal.

Maximum Design

Pressure: -75 psf. (See General Limitation #7)

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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. steel deck, Grade 80, is secured to minimum <sup>1</sup>/<sub>4</sub>" thick supports spaced

6 ft. o.c. with Traxx 5 fasteners and 3/4" diameter washers spaced 6" o.c. (two fasteners and washers installed at each bearing attachment point) and Traxx 1

fasteners 14" o.c. at the side laps

**System Type C(5):** All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft<sup>2</sup> ISO 95+ GL, RESISTA

Minimum 1.5" thick N/A N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer Insulation Fasteners (Table 3) Fastener

Density/ft²

DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ½" thick 1 or 2 with 4 1:1 ft²

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR or RubberGard Platinum EPDM membrane fully adhered to the cover board with Firestone Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal. The roof cover side and end laps are first primed on both sides with Firestone QuickSeam Primer and sealed with Firestone 3" wide QuickSeam Tape, Firestone SA-1065 Splice Adhesive or Pliobond 9053 splice adhesive applied at a rate of 120 lineal ft./gal.

Maximum Design

Pressure: -105 psf. (See General Limitation #7)



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Deck Type 2I: Steel, Insulated

**Deck Description:** 18-22 ga. steel deck, Grade 80, is secured to minimum 1/4" supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. (two fasteners installed at each bearing

attachment point) and Traxx 1 fasteners 12" o.c. at the side laps

System Type C(6): All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners	Fastener
·	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL, RESISTA		
Minimum 1.5" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners	Fastener
•	(Table 3)	Density/ft <sup>2</sup>
Plywood		-
Minimum 19/32" thick	2 with 4	1:1 ft <sup>2</sup>

Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT, Membrane:

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the cover board with Firestone BA-2004 T Bonding Adhesive, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal. The roof cover side and end laps are primed with Firestone QuickSeam Primer and

sealed with Firestone 3" wide QuickSeam Tape or the laps are sealed with

Firestone SA-1065 Splice Adhesive or Pliobond 9053 splice adhesive applied at a

rate of 120 lineal ft./gallon.

#### Maximum Design

Pressure: -180 psf. with BA-2004 T. (See General Limitation #7)

-142.5 psf. with Single-Ply LVOC Bonding Adhesive 1168. (See General Limitation #7)

-112.5 psf. with Single-Ply LVOC Bonding Adhesive. (See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. steel deck, Grade 80, is secured to minimum <sup>1</sup>/<sub>4</sub>" supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. (two fasteners installed at each bearing

attachment point) and Traxx 1 fasteners 24" o.c. at the side laps

**System Type C(7):** Insulation attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

**ISO 95+ GL** 

Minimum 1.5" thick 1 with 4 1:1.6 ft<sup>2</sup>

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T Bonding Adhesive, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate of 60 ft²/gal. Side and end laps

sealed with Firestone SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)



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Deck Type 2I: Steel, Insulated

18-22 ga. steel deck (see below for ksi) is secured to minimum 1/4" supports **Deck Description:** 

> spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6" o.c. (two fasteners installed at each bearing attachment point) and Traxx 1 fasteners 24" o.c. at the side laps

**System Type C(8):** Insulation attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners	Fastener
·	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL, RESISTA		
Minimum 2" thick	1 or 2 with 4	1:1 ft <sup>2</sup>

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

> RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T Bonding Adhesive, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate

of 60 ft<sup>2</sup>/gal.

The minimum 3" side and end laps for RubberGard EcoWhite are sealed with

EcoWhite OuickSeam Tape. The minimum 3" side and end laps for all

RubberGard membranes are sealed with SA-1065 Splice Adhesive or QuickSeam

Tape.

Maximum Design

Pressure: -112.5 psf. on Grade 33 steel deck. (See General Limitation #7)

-150 psf. on Grade 80 steel deck with BA-2004 T only (See General Limitation #7)



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Deck Type 2I: Steel, Insulated

18-22 ga. Grade 33 steel deck is secured to minimum 1/4" supports spaced 6 ft. **Deck Description:** 

o.c. with Traxx 5 fasteners spaced 6" o.c. (one fastener installed at each bearing

attachment point) and Traxx 1 fasteners 24" o.c. at the side laps

System Type C(9): Insulation attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
RESISTA		
Minimum 2" thick	1 or 2 with 4	1:1.33 ft <sup>2</sup>
Minimum 1.5" thick	1 or 2 with 4	1:1.6 ft <sup>2</sup>

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T Bonding Adhesive, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft<sup>2</sup>/gal. or Water Based Bonding Adhesive-P roller applied at a rate of

120 ft<sup>2</sup>/gal.

The minimum 3" side and end laps for RubberGard EcoWhite are sealed with

EcoWhite QuickSeam Tape . The minimum 3" side and end laps for all

RubberGard membranes are sealed with SA-1065 Splice Adhesive or QuickSeam

Tape.

Maximum Design

Pressure: -105 psf. with 2" RESISTA (See General Limitation #7)

-75 psf. with 1.5" RESISTA (See General Limitation #7)



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Deck Type 2I: Steel, Insulated

**Deck Description:** 18-22 ga. steel deck

System Type C(10): Insulation attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

**Base Insulation Layer Insulation Fasteners** Fastener (Table 3) Density/ft<sup>2</sup> ISO 95+ GL, RESISTA Minimum 1.5" thick N/A N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Top Insulation Layer Insulation Fasteners Fastener** (Table 3) Density/ft<sup>2</sup> ISOGARD HD Minimum 1/2" thick 1 or 2 with 4 1:2.7 ft<sup>2</sup>

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

> RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T Bonding Adhesive, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. The minimum 3" side and end laps for RubberGard EcoWhite are sealed with EcoWhite QuickSeam Tape. The minimum 3" side and end laps for all RubberGard membranes are sealed with SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design

Pressure: -45 psf. (See General Limitation #9)

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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Grade 33 steel deck is secured to minimum '4' supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. (one fastener installed at each bearing

attachment point) and Traxx 1 fasteners 24" o.c. at the side laps

**System Type C(11):** Insulation attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ISO 95+ GL, RESISTA

Minimum 1.5" thick N/A N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²
ISOGARD HD

Minimum 1/2" thick 1 or 2 with 4 1:1.33 ft<sup>2</sup>

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T Bonding Adhesive, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. The minimum 3" side and end laps for RubberGard EcoWhite are sealed with EcoWhite QuickSeam Tape. The minimum 3" side and end laps for all RubberGard membranes are sealed with SA-1065 Splice Adhesive or

QuickSeam Tape.

Maximum Design

Pressure: -60 psf. (See General Limitation #7)

MIAMI-DADE COUNTY
APPROVED

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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Grade 33 steel deck is secured to minimum <sup>1</sup>/<sub>4</sub>" supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. (one fastener installed at each bearing

attachment point) and Traxx 1 fasteners 24" o.c. at the side laps

**System Type C(12):** Insulation attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

 $\begin{array}{ccc} Insulation \ Layer & Insulation \ Fasteners & Fastener \\ & (Table \ 3) & Density/ft^2 \end{array}$ 

**ISOGARD HD Composite** 

Minimum 1" thick 1 or 2 with 4 1:1.33 ft<sup>2</sup>

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T Bonding Adhesive, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. The minimum 3" side and end laps for RubberGard EcoWhite are sealed with EcoWhite QuickSeam Tape . The minimum 3" side and end laps for all RubberGard membranes are sealed with SA-1065 Splice Adhesive or

QuickSeam Tape.

Maximum Design

Pressure: -60 psf. (See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., Grade 33 steel deck is secured to minimum <sup>1</sup>/<sub>4</sub>" supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. (one fastener installed at each bearing

attachment point) and Traxx 1 fasteners 24" o.c. at the side laps

**System Type C(13):** Insulation attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft<sup>2</sup>

ISOGARD HD Composite

Minimum 1.5" thick 1 or 2 with 4 1:1.33 ft<sup>2</sup>

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT,

RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T Bonding Adhesive, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. The minimum 3" side and end laps for RubberGard EcoWhite are sealed with EcoWhite QuickSeam Tape . The minimum 3" side and end laps for all RubberGard membranes are sealed with SA-1065 Splice Adhesive or

QuickSeam Tape.

Maximum Design

Pressure: -112.5 psf. (See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. steel

**System Type D(1):** Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft<sup>2</sup>

ISO 95+ GL, RESISTA Minimum 1.4" thick

N/A N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer Insulation Fasteners Fastener

(Table 3) Density/ff2

(Table 3) Density/ft<sup>2</sup>

Approved High Density Wood Fiberboard, Minimum ½" thick 1 or 2 with 4 1:4 ft<sup>2</sup>

Fire Barrier: None.

Membrane: Mechanically attach any 7 1/2' Reinforced Firestone RubberGard® EPDM

membrane with Firestone All-Purpose or Heavy Duty fasteners in 2" Metal Plates (or metal battens) 6" o.c. within the 7" wide side laps, or any nominal 10' Reinforced Firestone RubberGard® EPDM membrane with Firestone All-Purpose

or Heavy Duty Fasteners in metal batten strip only 6" o.c. with 7" side laps.

Or mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and All-Purpose or Heavy-Duty Fasteners along the batten strip or with Firestone Seam Plates or V-Plates with All-Purpose or Heavy-Duty Fasteners; fasteners shall be 6" o.c. within the QuickSeam R.M.A Strip spaced 7-1/2 ft. o.c. Any Reinforced Firestone

RubberGard® EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./ 100 sq. ft. with an

airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are

required.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #9)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. steel

**System Type D(2):** Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	<b>Insulation Fasteners</b>	Fastener
	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL, RESISTA, ISOGARD HD Composite		
Minimum 1.3" thick	1 or 2with 4	1:4 ft <sup>2</sup>

Approved High Density Wood Fiberboard, Minimum ½" thick 1 or 2 with 4 1:4 ft<sup>2</sup>

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Fire Barrier: None.

Membrane: Mechanically attach any 7 1/2' Reinforced Firestone RubberGard® EPDM

membrane with Firestone All-Purpose or Heavy Duty fasteners in 2" Metal Plates (or metal battens) 6" o.c. within the 7" wide side laps, or any nominal 10' Reinforced Firestone RubberGard® EPDM membrane with Firestone All-Purpose

or Heavy Duty Fasteners in metal batten strip only 6" o.c. with 7" side laps.

Or mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and All-Purpose or Heavy-Duty Fasteners along the batten strip or with Firestone Seam Plates or V-Plates with All-Purpose or Heavy-Duty Fasteners; fasteners shall be 6" o.c. within the QuickSeam R.M.A. Strip spaced 7-1/2 ft. o.c. Any Reinforced Firestone RubberGard® EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./ 100 sq. ft. with an

airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are

required.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #9)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., Grade 33 steel deck is secured to minimum <sup>1</sup>/<sub>4</sub>" supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. and Traxx 1 fasteners 30" o.c. at the

side laps

**System Type D(3):** Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	<b>Insulation Fasteners</b>	Fastener
•	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL, RESISTA, ISOGARD HD Composite	,	•
Minimum 1 5" thick	N/A	N/A

Note: All layers of insulation and membrane shall be simultaneously attached. See membrane below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Membrane:

Mechanically attach Firestone RubberGard MAX® or RubberGard MAX FR® EPDM membrane with Firestone Heavy-Duty fasteners in V-Plates or 2" Metal Plates 6" o.c. within the 7" wide side laps in rows 7 feet o.c. The roof cover laps are adhered by priming both lap surfaces with QuickPrime primer then applying 7" wide QuickSeam Tape.

Or

Mechanically attach Firestone RubberGard MAX®, RubberGard MAX PT or RubberGard MAX FR® EPDM membrane with Firestone All-Purpose or Heavy-Duty fasteners 6" o.c. in 1" wide Firestone Coiled Metal Batten Strips centered within the 6" wide side laps in rows 7 ft. o.c. The roof cover laps are washed with Firestone Splice Wash and adhered with Firestone SA-1065 Splice Adhesive brush applied at approximately 80 linear ft./gal. or primed with Firestone QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer applied at  $200-250~\rm{ft^2/gal}$ . and adhered with Firestone QuickSeam Tape.

Or

Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and All-Purpose or Heavy-Duty Fasteners along the batten strip or with Firestone 2" Metal Plates or V-Plates with All-Purpose or Heavy-Duty Fasteners; fasteners shall be 6" o.c. within the QuickSeam R.M.A Strip spaced 7 ft. o.c. RubberGard MAX or RubberGard MAX FR or RubberGard MAX PT EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., Grade 80 steel deck is secured to minimum \( \frac{1}{4} \) supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. and Traxx 1 fasteners 30" o.c. at the

side laps

**System Type D(4):** Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	<b>Insulation Fasteners</b>	Fastener
•	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL, RESISTA, ISOGARD HD Composite		
Minimum 1.5" thick	N/A	N/A

Note: All layers of insulation and membrane shall be simultaneously attached. See membrane below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Membrane:

Mechanically attach Firestone RubberGard MAX®, RubberGard MAX PT or RubberGard MAX FR® EPDM membrane with Firestone Heavy-Duty fasteners 6" o.c. in 1" wide Firestone Coiled Metal Batten Strips or ¾" or 1" Firestone Polymer Batten Strips centered within the 6" wide side laps in rows 7 ft. o.c. The roof cover laps are washed with Firestone Splice Wash and adhered with Firestone SA-1065 Splice Adhesive brush applied at approximately 80 linear ft./gal. or primed with Firestone QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer applied at 200 – 250 ft²/gal. and adhered with Firestone QuickSeam Tape.

Or

Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and All-Purpose or Heavy-Duty Fasteners along the batten strip or with Firestone 2" Metal Plates or V-Plates with All-Purpose or Heavy-Duty Fasteners; fasteners shall be 6" o.c. within the QuickSeam R.M.A Strip spaced 7 ft. o.c. RubberGard MAX, RubberGard MAX FR or RubberGard MAX PT EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., Grade 80 steel deck is secured to minimum \( \frac{1}{4} \) supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. and Traxx 1 fasteners 24" o.c. at the

side laps

**System Type D(5):** Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners	Fastener
·	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL, RESISTA, ISOGARD HD Composite		
Minimum 1.5" thick	N/A	N/A

Note: All layers of insulation and membrane shall be simultaneously attached. See membrane below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Membrane: Mechanically attach Firestone RubberGard MAX® or RubberGard MAX FR®

EPDM membrane (minimum 0.060 in. thick) with Firestone All-Purpose fasteners and V-Plates 6" o.c. within the 6" wide side laps in rows 9 ft. 6 in. o.c. The roof cover laps are adhered by priming both lap surfaces with QuickPrime primer, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer then applying 6" wide

QuickSeam Tape.

Or

Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and All-Purpose or Heavy-Duty Fasteners along the batten strip or with Firestone Seam Plates or V-Plates with All-Purpose or Heavy-Duty Fasteners; fasteners shall be 6" o.c. within the QuickSeam R.M.A Strip spaced 9 ft. 6 in. o.c. RubberGard MAX or RubberGard MAX FR EPDM membrane (minimum 0.060 in. thick) is adhered to each

QuickSeam R.M.A. Strip.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., Grade 80 steel deck is secured to minimum \( \frac{1}{4} \) supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. and Traxx 1 fasteners 24" o.c. at the

side laps

**System Type D(6):** Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	<b>Insulation Fasteners</b>	Fastener
	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL, RESISTA, ISOGARD HD Composite		
Minimum 1.5" thick	N/A	N/A

Note: All layers of insulation and membrane shall be simultaneously attached. See membrane below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Membrane: Mechanically attach Firestone RubberGard MAX® or RubberGard MAX FR®

EPDM membrane with Firestone Heavy Duty Plus fasteners 12" o.c. in <sup>3</sup>/<sub>4</sub>" or 1" Polymer Batten Strips centered within the 6" wide side laps in rows 9 ft. 6 in. o.c. The roof cover laps are adhered by priming both lap surfaces with QuickPrime primer, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer then applying 5.25" wide QuickSeam Tape.

Or

Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and All-Purpose or Heavy-Duty Fasteners along the batten strip or with Firestone 2" Metal Plates or V-Plates with All-Purpose or Heavy-Duty Fasteners; fasteners shall be 12" o.c. within the QuickSeam R.M.A Strip spaced 9 ft. 6 in. o.c. RubberGard MAX or RubberGard MAX FR EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Maximum Design

Pressure: -60 psf. (See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., Grade 80 steel deck is secured to minimum <sup>1</sup>/<sub>4</sub>" supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. and Traxx 1 fasteners 24" o.c. at the

side laps

**System Type D(7):** Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	<b>Insulation Fasteners</b>	Fastener
•	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL, RESISTA, ISOGARD HD Composite		
Minimum 1.5" thick	N/A	N/A

Note: All layers of insulation and membrane shall be simultaneously attached. See membrane below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Membrane: Mechanically attach Firestone RubberGard MAX, RubberGard MAX FR or

RubberGard MAX PT EPDM membrane with Firestone Heavy Duty Plus fasteners 12" o.c. in Firestone Coiled Metal Batten Strips centered within the 7" wide side laps in rows 7 ft. o.c. The roof cover laps are sealed by priming both lap surfaces with QuickPrime Plus then applying 7" wide QuickSeam Tape or sealed with Firestone SA-1065 Splice Adhesive or Pliobond 9053 splice adhesive applied at a rate of 120 lineal ft./gal.

Or

Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and All-Purpose or Heavy-Duty Fasteners along the batten strip or with Firestone 2" Metal Plates or V-Plates with All-Purpose or Heavy-Duty Fasteners; fasteners shall be 12" o.c. within the QuickSeam R.M.A Strip spaced 7 ft. o.c. RubberGard MAX RubberGard MAX FR or RubberGard MAX PT EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Or

Mechanically attach Firestone RubberGard MAX, RubberGard MAX PT or RubberGard MAX FR membrane with Firestone Heavy Duty Plus fasteners 12" o.c. in Firestone ¾" or 1" Polymer Batten Strip centered within the 7" wide side laps in rows 9-½ ft. o.c. The roof cover laps are sealed by priming both lap surfaces with QuickSeam Primer, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer then applying 7" wide QuickSeam Tape or sealed with Firestone SA-1065 Splice Adhesive or Pliobond 9053 splice adhesive applied at a rate of 120 lineal ft./gal.

Maximum Design

Pressure: —45 psf. (See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., Grade 80 steel deck is secured to minimum <sup>1</sup>/<sub>4</sub>" supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. and Traxx 1 fasteners 12" o.c. at the

side laps

**System Type D(8):** Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
ISO 95+ GL, RESISTA, ISOGARD HD Composite		
Minimum 1.5" thick	N/A	N/A

Note: All layers of insulation and membrane shall be simultaneously attached. See membrane below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Membrane: Mechanically attach Firestone RubberGard MAX, RubberGard MAX FR or

RubberGard MAX PT EPDM membrane with Firestone Heavy Duty Plus fasteners 6" o.c. in Firestone Coiled Metal Batten Strips centered within the 7" wide side laps in rows 7 ft. o.c. The roof cover laps are sealed by priming both lap surfaces with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer then applying 7" wide QuickSeam Tape or sealed with Firestone SA-1065 Splice Adhesive or Pliobond 9053 splice adhesive applied at a rate of 120 lineal ft./gal.

Or

Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and All-Purpose or Heavy-Duty Fasteners along the batten strip or with Firestone 2" Metal Plates or V-Plates with All-Purpose or Heavy-Duty Fasteners; fasteners shall be 6" o.c. within the QuickSeam R.M.A Strip spaced 7 ft. o.c. RubberGard MAX RubberGard MAX FR or RubberGard MAX PT EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Maximum Design

Pressure: -60 psf. (See General Limitation #7)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., Grade 80 steel deck is secured to minimum \( \frac{1}{4} \) supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6" o.c. and Traxx 1 fasteners 24" o.c. at the

side laps

**System Type D(9):** Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer Insulation Fasteners (Table 3) Fastener Density/ft²
ISO 95+ GL, RESISTA, ISOGARD HD Composite

Minimum 1.5" thick

N/A N/A

Note: All layers of insulation and membrane shall be simultaneously attached. See membrane below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Membrane: Firestone RubberGard MAX, RubberGard MAX PT or RubberGard MAX EPDM

roof cover mechanically fastened to the deck with Firestone Heavy-Duty or Heavy-Duty Plus Fasteners and 1 in. wide Firestone Coiled Metal Batten Strip 6 in. o.c. within the 6 in. wide side laps in rows spaced 7 ft. o.c. Side laps primed with Firestone QuickPrime Plus applied at 200-250 ft²/gal. and adhered with

Firestone QuickSeam Tape.

Maximum Design

Pressure: -67.5 psf. with Heavy-Duty Fasteners (See General Limitation #7)

-90 psf. with Heavy-Duty Plus Fasteners (See General Limitation #7)



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#### STEEL DECK SYSTEM LIMITATIONS:

- If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
- 2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

#### **GENERAL LIMITATIONS:**

- 1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- 7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

## END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY
APPROVED

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